

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-050703
 (43)Date of publication of application : 03.03.1988

(51)Int.Cl.

G01B 11/06

(21)Application number : 61-196147
 (22)Date of filing : 21.08.1986

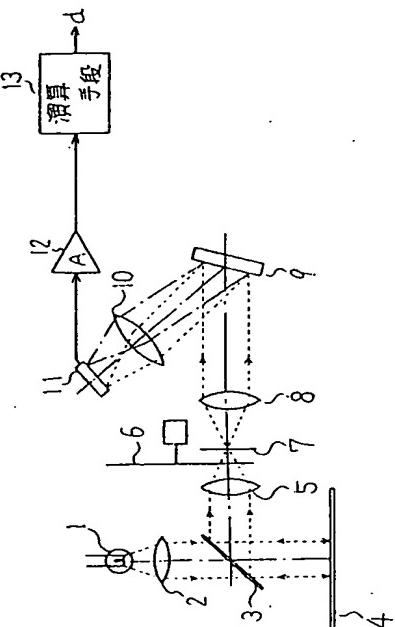
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(54) APPARATUS FOR MEASURING FILM THICKNESS

(57)Abstract:

PURPOSE: To obtain the title apparatus capable of certainly measuring a film thickness even when an interference fringe pattern is unclear, by operating the film thickness from the output, relating to the polarity when the difference between max. and min. values is a predetermined value, among outputs with respect to the wavelengths of a detector.

CONSTITUTION: The beam from a beam source 1 is projected to an object 4 to be measured and the beam transmitted through or reflected from said object 4 is spectrally diffracted by a spectroscope 9 and an interference fringe is detected by a detector 11 and the film thickness of the object 4 is operated by an operation means 13. However, interference fringe patterns are shifted and overlapped by the irregularity of the film thickness of the object to often generate a weak part. Then, the film thickness is measured from the output, relating to the polarity when the difference between max. and min. values is a predetermined value, among the outputs with respect to the wavelengths of a detector. By this method, an uncertain and weak interference fringe is removed and the film thickness of the object 4 can be measured from a strong and certain interference fringe.



LEGAL STATUS

- [Date of request for examination]
- [Date of sending the examiner's decision of rejection]
- [Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
- [Date of final disposal for application]
- [Patent number]
- [Date of registration]
- [Number of appeal against examiner's decision of rejection]
- [Date of requesting appeal against examiner's decision of rejection]
- [Date of extinction of right]

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